service integrity
signal integrity
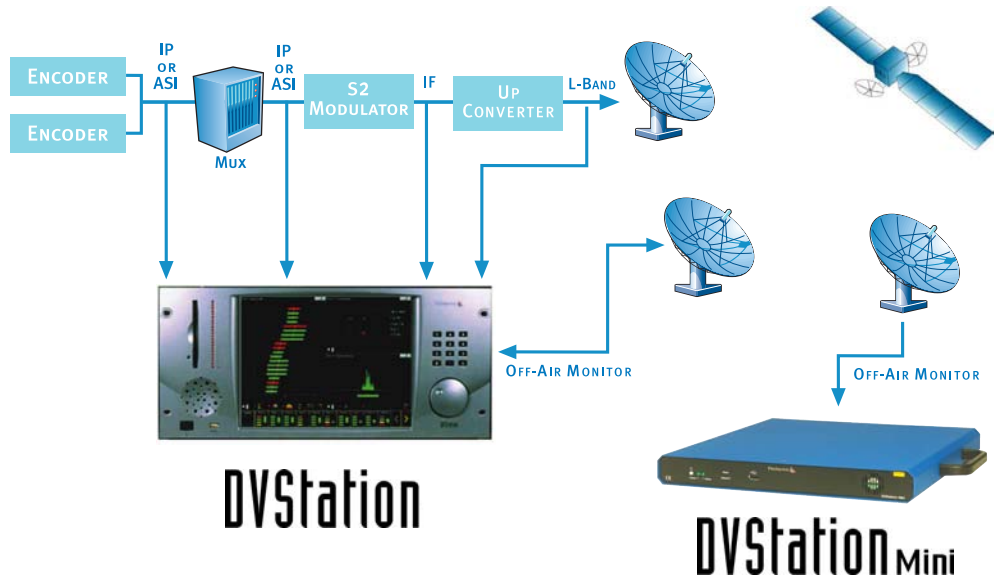*remote monitoring*

DVStation Mini

DVStation-Mini PSK

Overview

The DVStation-Mini PSK is a single port L-band transport stream monitoring solution. Rugged and portable, it is ideal for rough and mobile environments.

The DVStation-Mini PSK can scan through the entire L-band spectrum very quickly making auto-discovery of services very simple - even if key parameters such as the symbol rates or FEC options are not known.

The DVStation-Mini PSK lets you remotely view full-frame MPEG-2/H.264 video with the associated audio streams. The DVStation-Mini PSK can also *capture* a segment of the live transmission for later analysis.

Key Features

- Scan the entire L-band spectrum for available services without knowledge of symbol rates or FEC options
- Remotely view MPEG-2/MPEG-4 video along with associated audio for confidence monitoring
- *Capture* a part of the live transmission in the field for later analysis
- Reliable operation in shock-susceptible mobile applications
- 1 RU rack-mountable - small footprint
- Monitor multiple sources in a time-shared mode
- Easily configured with a web browser or VNC client - Mac/PC compatible
- DVB-S QPSK L-band input
- Easy recovery using supplied USB recovery drive and default IP reset

Video thumbnails for confidence monitoring

Audio presence with tone/silence alarms

Overall status summary: Bandwidth, transport stream and table integrity

Service Information Summary

Bandwidth per PID

Per-PID view of the status of continuity count and other PID based errors

Analyze
- PSI/DVB-SI Decode in real time
- Display of video thumbnails of services and associated metadata
- PID View

Measure
- TR 101 290 conformance analysis
- Bandwidth measurements
- Inter-packet arrival intervals
- PCR Jitter

Configure Alarms
- All the measurements above with configurable threshold
- On-Air Content Validation
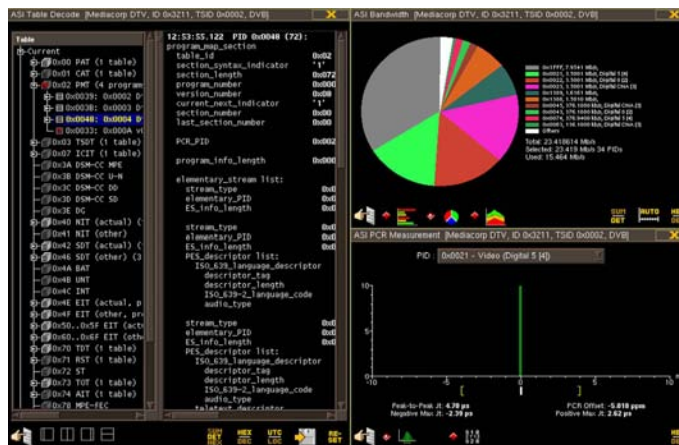
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OPTIONS

- **On-Air Content Validation (OCV)**

  Automatically identify discrepancies between the expected baseline and actual broadcast content: missing or extra services, incorrect service names, loss of subtitles, wrong language, incorrect age-rating

- **MHP Object & DSM-CC Data Carousel Analysis**

  Validate smooth operation of interactive TV services

- **M2P Interface**

  Hardware interface required for certain legacy equipment

Decode tables for troubleshooting: View table contents in plain text, ASCII or hexadecimal

Bandwidth utilization by the transport stream components

PCR Jitter Measurements

To learn more about how the DVStation-Mini PSK can help you monitor your transmission network, please visit the DVStation-Mini micro site at: http://www.pixelmetrix.com/eng/dvstationmini.htm

DVStation-Mini PSK with rack-mount ears installed

DVStation-Mini PSK Front Panel

DVStation-Mini PSK Rear Panel

SPECIFICATIONS

System Interfaces
- Management Port
  - 10/100 Base-T
  - RJ-45 Copper Connector
- Serial Port
  - 9-pin DE-9P Connector
- GPI Contacts
  - 4 Contacts
  - 9-pin DE-9P Connector
- USB 1.1a Connector

Control Interfaces
- HTML Web Browser
- VNC Remote Client

Electrical Characteristics
- Power Input
  - 90-240 V AC; 47-63 Hz
- Current Requirement
  - 5.0A at 115 V AC Max
  - 2.5A at 230 V AC Max

Network Management
- SNMP MIB for NMS integration

Mechanical Characteristics
- 1 RU Portable with handle or 19 inch rack-mountable
- Operating Temperatures
  - +10°C to +30°C
- Storage Temperature
  - 0°C to +50°C

Mass Storage
- 80 GB shock-mounted HDD

Input Interfaces

L-Band RF Input

Connector Type
- F-type (75Ω)

Frequency Range
- 950 to 2150 MHz QPSK signal

Maximum Symbol Rate
- 30 MSym/s

Code Rate
- 1/2, 2/3, 3/4, 5/6, 6/7, 7/8

Power Level
- -25 dBm to -65 dBm

Standard
- ETSI EN 300 421 (DVB-S)

Impairment Detection

- RF Carrier Level
- RF Frequency
- Signal to Noise Ratio (SnR)
- Bit Error Rate (BER)
- Error Vector Magnitude (EVM)
- Modulation Error Ration (MER)
- Reed Solomon uncorrected block error counts

Distributor Contact

Pixelmetrix Corporation

The Americas
10097 Cleary Boulevard
Suite 114 Fort Lauderdale
Florida 33324 USA
Tel: +1 954 472 5445
Fax: +1 212 671 1549

Asia Pacific
31 Kaki Bukit Road 3
#07-03 Techlink
Singapore 417818
Tel: +65 6547 4935
Fax: +65 6547 4945

Europe
Moosstrasse 6
CH 5443 Niederrohrdorf
Switzerland
Tel: +41 56641 0317
Fax: +41 56500 0161

www.pixelmetrix.com

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